

What Is Claimed Is:

1. A radar sensor for a motor vehicle having a transmitting device and a receiving device,
wherein transmitting parameters of the transmitting device and receiving parameters of the receiving device are variable.
2. The radar sensor as recited in Claim 1,
wherein the transmitting parameters are the transmitting frequency and/or the transmitting capacity and/or the modulation amplitude and/or the azimuthal width of the emitted field.
3. The radar sensor as recited in one of the preceding claims,
wherein the receiving parameters are the receiving frequency and/or the receiving sensitivity and/or the azimuthal width of the received field.
4. A method for controlling the transmitting and receiving parameters of a radar sensor as recited in one of the preceding claims,
wherein the transmitting parameters and/or receiving parameters are changed as a function of the driving condition of the vehicle.
5. The method as recited in the preceding claim,
wherein the speed and/or an assistance function selected by the driver and/or the position of the vehicle and/or the installation location of the radar sensor enter into the driving condition.
6. The method as recited in one of the preceding claims,
wherein the speed resolution of the radar sensor is changed.
7. The method as recited in one of the preceding claims,
wherein the distance resolution of the radar sensor is changed.
8. The method as recited in one of the preceding claims,
wherein the width and shape of the antenna characteristic are changed.

9. The method as recited in the preceding claim,
wherein the antenna characteristic is changed by switching elements at the high-frequency level.
10. The method as recited in Claim 8,
wherein the antenna characteristic is changed by digital processing in the baseband.